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**INDUSTRIAL AREA
SAMPLING AND ANALYSIS PLAN
FY02 ADDENDUM #IA-02-06
IHSS GROUP 600-2**

July 2002



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**INDUSTRIAL AREA
SAMPLING AND ANALYSIS PLAN
FY02 ADDENDUM #IA-02-06
IHSS GROUP 600-2**

Approval received from the Colorado Department of Public Health and Environment

July 9, 2002

Approval letter is contained in the Administrative Record.

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ACRONYMS

FY	Fiscal Year
HPGe	high-purity germanium
HRR	Historical Release Report
IA	Industrial Area
IASAP	Industrial Area Sampling and Analysis Plan
IHSS	Individual Hazardous Substance Site
MDL	method detection limit
mg/kg	milligrams per kilogram
PAC	Potential Area of Concern
PCB	polychlorinated biphenyl
pCi/g	picocuries per gram
PCOC	potential contaminant of concern
SAP	Sampling and Analysis Plan
SVOC	semivolatile organic compound
UBC	Under Building Contamination
VOC	volatile organic compound

1.0 INTRODUCTION

This Industrial Area (IA) Sampling and Analysis Plan (SAP) (IASAP) (DOE 2001) Addendum #IA-02-06 includes Individual Hazardous Substance Site (IHSS) Group-specific information, sampling locations, and potential contaminants of concern (PCOCs) for IHSSs, Potential Areas of Concern (PACs), and Under Building Contamination (UBC) Sites proposed for characterization during Fiscal Year (FY)02. This IASAP Addendum is a supplement to the IASAP (DOE 2001) and includes data and proposed sampling locations for the IHSS Groups and associated IHSSs, PACs, and UBC Sites listed in Table 1. The locations of the IHSS Groups and IHSSs, PACs, and UBC Sites proposed for FY02 are shown on Figure 1.

Table 1
IASAP Addendum #IA-02-06 IHSS Groups

IHSS Group	IHSS/PAC/UBC Site
600-2	PAC 400-802 – Storage Shed South of Building 334

2.0 EXISTING CHARACTERIZATION INFORMATION

Existing concentrations and activities above the background mean plus two standard deviations, or method detection limit (MDL), are presented on maps in Section 4.0 where available. Table 2 presents the PCOCs. Existing data for the IHSSs, PACs, and UBC Sites are available in Appendix C of the IASAP (DOE 2001) and in the Industrial Area Data Summary Report (DOE 2000).

3.0 SAMPLING

The proposed sampling specifications (number and types of samples) for each IHSS, PAC, and UBC Site are listed in Table 3. Proposed new sampling locations are the starting point for IHSS Group characterization. After characterization starts, the number and type of samples may change based on sampling results. Changes to sampling specifications will be considered in consultation with the regulatory agencies.

Three types of sampling strategies are used to determine sampling locations: statistical, geostatistical, and biased. Statistical grids have computer-generated random start points and orientations. Additionally, the grids have been extended outside the IHSS, PAC, or UBC Site to provide additional sampling locations if needed. Biased samples are based on existing data and supplement the statistical grid locations. Geostatistical methods were not used at this IHSS Group.

Where a new sampling location overlaps or is adjacent to an existing sampling location, the existing sampling location data will be used during evaluation. Statistical sampling locations

within a building footprint may be adjusted in the field to collect samples from specific building features.

4.0 MAPS

Maps in this section are organized by IHSS Group. All existing sampling locations and data, where available, are presented, followed by the proposed new sampling locations.

5.0 REFERENCES

DOE, 1992-2001, Historical Release Reports for the Rocky Flats Plant, Golden, Colorado.

DOE, 2000, Rocky Flats Environmental Technology Site Industrial Area Data Summary Report, Golden, Colorado, September.

DOE, 2001, Industrial Area Sampling and Analysis Plan, Rocky Flats Environmental Technology Site, Golden, Colorado, June.

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Table 2
Potential Contaminants of Concern

IHSS Group	IHSS/PAC/UBC Site	PCOCs	Media	Data Source	Sampling Location Method
600-2	PAC 400-802 – Storage Shed South of Building 334	Radionuclides Metals SVOCs PCBs VOCs	Surface and Subsurface Soil	HRR (DOE 1992-2001) Process knowledge (IASAP [DOE 2001])	Statistical grid

HRR
PCB
SVOC
VOC

Historical Release Report
polychlorinated biphenyl
semivolatile organic compound
volatile organic compound

Table 3
Sampling Specifications

IHSS Group	IHSS/PAC/UBC Site	Location Code	Easting	Northing	Media	Depth Interval	Analyte	Onsite Method	Offsite Laboratory Method
600-2	PAC 400-802 – Storage Shed South of Building 334	BZ38-A002	2082569.812	749110.989	Surface Soil	0-0.5'	Radionuclides	HPGe	Alpha Spec
		BZ38-A002	2082569.812	749110.989	Surface Soil	0-0.5'	Metals	6200	6010
		BZ38-A002	2082569.812	749110.989	Surface Soil	0-0.5'	SVOCs	N/A	8270
		BZ38-B002	2082569.812	749110.989	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec
		BZ38-B002	2082569.812	749110.989	Subsurface Soil	0.5'-2.5'	VOCs	8260	8260
		BZ38-A003	2082562.715	749146.282	Surface Soil	0-0.5'	Radionuclides	HPGe	Alpha Spec
		BZ38-A003	2082562.715	749146.282	Surface Soil	0-0.5'	Metals	6200	6010
		BZ38-A003	2082562.715	749146.282	Surface Soil	0-0.5'	SVOCs	N/A	8270
		BZ38-B003	2082562.715	749146.282	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec
		BZ38-B003	2082562.715	749146.282	Subsurface Soil	0.5'-2.5'	VOCs	8260	8260
		BZ38-A004	2082603.926	749099.488	Surface Soil	0-0.5'	Radionuclides	HPGe	Alpha Spec
		BZ38-A004	2082603.926	749099.488	Surface Soil	0-0.5'	Metals	6200	6010
		BZ38-A004	2082603.926	749099.488	Surface Soil	0-0.5'	SVOCs	N/A	8270
		BZ38-B004	2082603.926	749099.488	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec
		BZ38-B004	2082603.926	749099.488	Subsurface Soil	0.5'-2.5'	VOCs	8260	8260
		BZ38-A005	2082596.829	749134.782	Surface Soil	0-0.5'	Radionuclides	HPGe	Alpha Spec
		BZ38-A005	2082596.829	749134.782	Surface Soil	0-0.5'	Metals	6200	6010
		BZ38-A005	2082596.829	749134.782	Surface Soil	0-0.5'	SVOCs	N/A	8270
		BZ38-B005	2082596.829	749134.782	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec
		BZ38-B005	2082596.829	749134.782	Subsurface Soil	0.5'-2.5'	VOCs	8260	8260
		BZ38-A006	2082630.942	749123.282	Surface Soil	0-0.5'	Radionuclides	HPGe	Alpha Spec
		BZ38-A006	2082630.942	749123.282	Surface Soil	0-0.5'	Metals	6200	6010
		BZ38-A006	2082630.942	749123.282	Surface Soil	0-0.5'	SVOCs	N/A	8270
		BZ38-B006	2082630.942	749123.282	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec
		BZ38-B006	2082630.942	749123.282	Subsurface Soil	0.5'-2.5'	VOCs	8260	8260
		BZ38-A007	2082623.845	749158.575	Surface Soil	0-0.5'	Radionuclides	HPGe	Alpha Spec
		BZ38-A007	2082623.845	749158.575	Surface Soil	0-0.5'	Metals	6200	6010
		BZ38-A007	2082623.845	749158.575	Surface Soil	0-0.5'	SVOCs	N/A	8270

IHSS Group	IHSS/PAC/UBC Site	Location Code	Easting	Northing	Media	Depth Interval	Analyte	Onsite Method	Offsite Laboratory Method
		BZ38-B007	2082623.845	749158.575	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec
		BZ38-B007	2082623.845	749158.575	Subsurface Soil	0.5'-2.5'	VOCs	8260	8260
		BZ38-A008	2082665.056	749111.781	Surface Soil	0-0.5'	Radionuclides	HPGe	Alpha Spec
		BZ38-A008	2082665.056	749111.781	Surface Soil	0-0.5'	Metals	6200	6010
		BZ38-A008	2082665.056	749111.781	Surface Soil	0-0.5'	SVOCs	N/A	8270
		BZ38-B008	2082665.056	749111.781	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec
		BZ38-B008	2082665.056	749111.781	Subsurface Soil	0.5'-2.5'	VOCs	8260	8260
		BZ38-A009	2082657.959	749147.075	Surface Soil	0-0.5'	Radionuclides	HPGe	Alpha Spec
		BZ38-A009	2082657.959	749147.075	Surface Soil	0-0.5'	Metals	6200	6010
		BZ38-A009	2082657.959	749147.075	Surface Soil	0-0.5'	SVOCs	N/A	8270
		BZ38-B009	2082657.959	749147.075	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec
		BZ38-B009	2082657.959	749147.075	Subsurface Soil	0.5'-2.5'	VOCs	8260	8260
		BZ38-A010	2082699.170	749100.281	Surface Soil	0-0.5'	Radionuclides	HPGe	Alpha Spec
		BZ38-A010	2082699.170	749100.281	Surface Soil	0-0.5'	Metals	6200	6010
		BZ38-A010	2082699.170	749100.281	Surface Soil	0-0.5'	SVOCs	N/A	8270
		BZ38-B010	2082699.170	749100.281	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec
		BZ38-B010	2082699.170	749100.281	Subsurface Soil	0.5'-2.5'	VOCs	8260	8260
		BZ38-A011	2082692.072	749135.575	Surface Soil	0-0.5'	Radionuclides	HPGe	Alpha Spec
		BZ38-A011	2082692.072	749135.575	Surface Soil	0-0.5'	Metals	6200	6010
		BZ38-A011	2082692.072	749135.575	Surface Soil	0-0.5'	SVOCs	N/A	8270
		BZ38-B011	2082692.072	749135.575	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec
		BZ38-B011	2082692.072	749135.575	Subsurface Soil	0.5'-2.5'	VOCs	8260	8260
		BZ38-A012	2082726.186	749124.074	Surface Soil	0-0.5'	Radionuclides	HPGe	Alpha Spec
		BZ38-A012	2082726.186	749124.074	Surface Soil	0-0.5'	Metals	6200	6010
		BZ38-A012	2082726.186	749124.074	Surface Soil	0-0.5'	SVOCs	N/A	8270
		BZ38-B012	2082726.186	749124.074	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec
		BZ38-B012	2082726.186	749124.074	Subsurface Soil	0.5'-2.5'	VOCs	8260	8260
		BZ38-A013	2082719.089	749159.368	Surface Soil	0-0.5'	Radionuclides	HPGe	Alpha Spec
		BZ38-A013	2082719.089	749159.368	Surface Soil	0-0.5'	Metals	6200	6010
		BZ38-A013	2082719.089	749159.368	Surface Soil	0-0.5'	SVOCs	N/A	8270
		BZ38-B013	2082719.089	749159.368	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec

IHSS Group	IHSS/PAC/UBC Site	Location Code	Easting	Northing	Media	Depth Interval	Analyte	Onsite Method	Offsite Laboratory Method
		BZ38-B013	2082719.089	749159.368	Subsurface Soil	0.5'-2.5'	VOCs	8260	8260
		BZ39-A006	2082555.618	749181.575	Surface Soil	0-0.5'	Radionuclides	HPGe	Alpha Spec
		BZ39-A006	2082555.618	749181.575	Surface Soil	0-0.5'	Metals	6200	6010
		BZ39-A006	2082555.618	749181.575	Surface Soil	0-0.5'	SVOCs	N/A	8270
		BZ39-B006	2082555.618	749181.575	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec
		BZ39-B006	2082555.618	749181.575	Subsurface Soil	0.5'-2.5'	VOCs	8260	8260
		BZ39-A007	2082548.520	749216.869	Surface Soil	0-0.5'	Radionuclides	HPGe	Alpha Spec
		BZ39-A007	2082548.520	749216.869	Surface Soil	0-0.5'	Metals	6200	6010
		BZ39-A007	2082548.520	749216.869	Surface Soil	0-0.5'	SVOCs	N/A	8270
		BZ39-A007	2082548.520	749216.869	Surface Soil	0-0.5'	PCBs	8082	8082
		BZ39-B007	2082548.520	749216.869	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec
		BZ39-B007	2082548.520	749216.869	Subsurface Soil	0.5'-2.5'	VOCs	8260	8260
		BZ39-B007	2082548.520	749216.869	Subsurface Soil	0.5'-2.5'	PCBs	8082	8082
		BZ39-A008	2082541.423	749252.162	Surface Soil	0-0.5'	Radionuclides	HPGe	Alpha Spec
		BZ39-A008	2082541.423	749252.162	Surface Soil	0-0.5'	Metals	6200	6010
		BZ39-A008	2082541.423	749252.162	Surface Soil	0-0.5'	SVOCs	N/A	8270
		BZ39-B008	2082541.423	749252.162	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec
		BZ39-B008	2082541.423	749252.162	Subsurface Soil	0.5'-2.5'	VOCs	8260	8260
		BZ39-A009	2082589.731	749170.075	Surface Soil	0-0.5'	Radionuclides	HPGe	Alpha Spec
		BZ39-A009	2082589.731	749170.075	Surface Soil	0-0.5'	Metals	6200	6010
		BZ39-A009	2082589.731	749170.075	Surface Soil	0-0.5'	SVOCs	N/A	8270
		BZ39-B009	2082589.731	749170.075	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec
		BZ39-B009	2082589.731	749170.075	Subsurface Soil	0.5'-2.5'	VOCs	8260	8260
		BZ39-A010	2082582.634	749205.369	Surface Soil	0-0.5'	Radionuclides	HPGe	Alpha Spec
		BZ39-A010	2082582.634	749205.369	Surface Soil	0-0.5'	Metals	6200	6010
		BZ39-A010	2082582.634	749205.369	Surface Soil	0-0.5'	SVOCs	N/A	8270
		BZ39-A010	2082582.634	749205.369	Surface Soil	0-0.5'	PCBs	8082	8082
		BZ39-B010	2082582.634	749205.369	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec
		BZ39-B010	2082582.634	749205.369	Subsurface Soil	0.5'-2.5'	VOCs	8260	8260
		BZ39-B010	2082582.634	749205.369	Subsurface Soil	0.5'-2.5'	PCBs	8082	8082
		BZ39-A011	2082575.537	749240.662	Surface Soil	0-0.5'	Radionuclides	HPGe	Alpha Spec

IHSS Group	IHSS/PAC/UBC Site	Location Code	Easting	Northing	Media	Depth Interval	Analyte	Onsite Method	Offsite Laboratory Method
		BZ39-A011	2082575.537	749240.662	Surface Soil	0-0.5'	Metals	6200	6010
		BZ39-A011	2082575.537	749240.662	Surface Soil	0-0.5'	SVOCs	N/A	8270
		BZ39-A011	2082575.537	749240.662	Surface Soil	0-0.5'	PCBs	8082	8082
		BZ39-B011	2082575.537	749240.662	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec
		BZ39-B011	2082575.537	749240.662	Subsurface Soil	0.5'-2.5'	VOCs	8260	8260
		BZ39-B011	2082575.537	749240.662	Subsurface Soil	0.5'-2.5'	PCBs	8082	8082
		BZ39-A012	2082568.439	749275.956	Surface Soil	0-0.5'	Radionuclides	HPGe	Alpha Spec
		BZ39-A012	2082568.439	749275.956	Surface Soil	0-0.5'	Metals	6200	6010
		BZ39-A012	2082568.439	749275.956	Surface Soil	0-0.5'	SVOCs	N/A	8270
		BZ39-B012	2082568.439	749275.956	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec
		BZ39-B012	2082568.439	749275.956	Subsurface Soil	0.5'-2.5'	VOCs	8260	8260
		BZ39-A013	2082616.748	749193.868	Surface Soil	0-0.5'	Radionuclides	HPGe	Alpha Spec
		BZ39-A013	2082616.748	749193.868	Surface Soil	0-0.5'	Metals	6200	6010
		BZ39-A013	2082616.748	749193.868	Surface Soil	0-0.5'	SVOCs	N/A	8270
		BZ39-B013	2082616.748	749193.868	Subsurface Soil	0.5'-2.5'	PCBs	8082	8082
		BZ39-B013	2082616.748	749193.868	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec
		BZ39-B013	2082616.748	749193.868	Subsurface Soil	0.5'-2.5'	VOCs	8260	8260
		BZ39-A014	2082609.650	749229.162	Surface Soil	0-0.5'	PCBs	8082	8082
		BZ39-A014	2082609.650	749229.162	Surface Soil	0-0.5'	Radionuclides	HPGe	Alpha Spec
		BZ39-A014	2082609.650	749229.162	Surface Soil	0-0.5'	Metals	6200	6010
		BZ39-B014	2082609.650	749229.162	Subsurface Soil	0.5'-2.5'	SVOCs	N/A	8270
		BZ39-B014	2082609.650	749229.162	Subsurface Soil	0.5'-2.5'	PCBs	8082	8082
		BZ39-B014	2082609.650	749229.162	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec
		BZ39-B014	2082609.650	749229.162	Subsurface Soil	0.5'-2.5'	VOCs	8260	8260
		BZ39-A015	2082602.553	749264.455	Surface Soil	0-0.5'	PCBs	8082	8082
		BZ39-A015	2082602.553	749264.455	Surface Soil	0-0.5'	Radionuclides	HPGe	Alpha Spec
		BZ39-A015	2082602.553	749264.455	Surface Soil	0-0.5'	Metals	6200	6010
		BZ39-B015	2082602.553	749264.455	Subsurface Soil	0.5'-2.5'	SVOCs	N/A	8270
		BZ39-B015	2082602.553	749264.455	Subsurface Soil	0.5'-2.5'	PCBs	8082	8082
		BZ39-B015	2082602.553	749264.455	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec
		BZ39-B015	2082602.553	749264.455	Subsurface Soil	0.5'-2.5'	VOCs	8260	8260

IHSS Group	IHSS/PAC/UBC Site	Location Code	Easting	Northing	Media	Depth Interval	Analyte	Onsite Method	Offsite Laboratory Method
		BZ39-B015	2082602.553	749264.455	Subsurface Soil	0.5'-2.5'	PCBs	8082	8082
		BZ39-A016	2082650.861	749182.368	Surface Soil	0-0.5'	Radionuclides	HPGe	Alpha Spec
		BZ39-A016	2082650.861	749182.368	Surface Soil	0-0.5'	Metals	6200	6010
		BZ39-A016	2082650.861	749182.368	Surface Soil	0-0.5'	SVOCs	N/A	8270
		BZ39-B016	2082650.861	749182.368	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec
		BZ39-B016	2082650.861	749182.368	Subsurface Soil	0.5'-2.5'	VOCs	8260	8260
		BZ39-A017	2082643.764	749217.662	Surface Soil	0-0.5'	Radionuclides	HPGe	Alpha Spec
		BZ39-A017	2082643.764	749217.662	Surface Soil	0-0.5'	Metals	6200	6010
		BZ39-A017	2082643.764	749217.662	Surface Soil	0-0.5'	SVOCs	N/A	8270
		BZ39-B017	2082643.764	749217.662	Subsurface Soil	0.5'-2.5'	PCBs	8082	8082
		BZ39-B017	2082643.764	749217.662	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec
		BZ39-B017	2082643.764	749217.662	Subsurface Soil	0.5'-2.5'	VOCs	8260	8260
		BZ39-A018	2082636.667	749252.955	Surface Soil	0-0.5'	Radionuclides	HPGe	Alpha Spec
		BZ39-A018	2082636.667	749252.955	Surface Soil	0-0.5'	Metals	6200	6010
		BZ39-A018	2082636.667	749252.955	Surface Soil	0-0.5'	SVOCs	N/A	8270
		BZ39-B018	2082636.667	749252.955	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec
		BZ39-B018	2082636.667	749252.955	Subsurface Soil	0.5'-2.5'	VOCs	8260	8260
		BZ39-A019	2082629.569	749288.249	Surface Soil	0-0.5'	Radionuclides	HPGe	Alpha Spec
		BZ39-A019	2082629.569	749288.249	Surface Soil	0-0.5'	Metals	6200	6010
		BZ39-A019	2082629.569	749288.249	Surface Soil	0-0.5'	SVOCs	N/A	8270
		BZ39-B019	2082629.569	749288.249	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec
		BZ39-B019	2082629.569	749288.249	Subsurface Soil	0.5'-2.5'	VOCs	8260	8260
		BZ39-A020	2082684.975	749170.868	Surface Soil	0-0.5'	Radionuclides	HPGe	Alpha Spec
		BZ39-A020	2082684.975	749170.868	Surface Soil	0-0.5'	Metals	6200	6010
		BZ39-A020	2082684.975	749170.868	Surface Soil	0-0.5'	SVOCs	N/A	8270
		BZ39-B020	2082684.975	749170.868	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec
		BZ39-B020	2082684.975	749170.868	Subsurface Soil	0.5'-2.5'	VOCs	8260	8260
		BZ39-A021	2082677.878	749206.161	Surface Soil	0-0.5'	Radionuclides	HPGe	Alpha Spec
		BZ39-A021	2082677.878	749206.161	Surface Soil	0-0.5'	Metals	6200	6010
		BZ39-A021	2082677.878	749206.161	Surface Soil	0-0.5'	SVOCs	N/A	8270

IHSS Group	IHSS/PAC/UBC Site	Location Code	Easting	Northing	Media	Depth Interval	Analyte	Onsite Method	Offsite Laboratory Method
		BZ39-B021	2082677.878	749206.161	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec
		BZ39-B021	2082677.878	749206.161	Subsurface Soil	0.5'-2.5'	VOCs	8260	8260
		BZ39-A022	2082670.780	749241.455	Surface Soil	0-0.5'	Radionuclides	HPGe	Alpha Spec
		BZ39-A022	2082670.780	749241.455	Surface Soil	0-0.5'	Metals	6200	6010
		BZ39-A022	2082670.780	749241.455	Surface Soil	0-0.5'	SVOCs	N/A	8270
		BZ39-B022	2082670.780	749241.455	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec
		BZ39-B022	2082670.780	749241.455	Subsurface Soil	0.5'-2.5'	VOCs	8260	8260
		BZ39-A023	2082663.683	749276.748	Surface Soil	0-0.5'	Radionuclides	HPGe	Alpha Spec
		BZ39-A023	2082663.683	749276.748	Surface Soil	0-0.5'	Metals	6200	6010
		BZ39-A023	2082663.683	749276.748	Surface Soil	0-0.5'	SVOCs	N/A	8270
		BZ39-B023	2082663.683	749276.748	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec
		BZ39-B023	2082663.683	749276.748	Subsurface Soil	0.5'-2.5'	VOCs	8260	8260
		BZ39-A024	2082711.991	749194.661	Surface Soil	0-0.5'	Radionuclides	HPGe	Alpha Spec
		BZ39-A024	2082711.991	749194.661	Surface Soil	0-0.5'	Metals	6200	6010
		BZ39-A024	2082711.991	749194.661	Surface Soil	0-0.5'	SVOCs	N/A	8270
		BZ39-B024	2082711.991	749194.661	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec
		BZ39-B024	2082711.991	749194.661	Subsurface Soil	0.5'-2.5'	VOCs	8260	8260
		BZ39-A025	2082704.894	749229.955	Surface Soil	0-0.5'	Radionuclides	HPGe	Alpha Spec
		BZ39-A025	2082704.894	749229.955	Surface Soil	0-0.5'	Metals	6200	6010
		BZ39-A025	2082704.894	749229.955	Surface Soil	0-0.5'	SVOCs	N/A	8270
		BZ39-B025	2082704.894	749229.955	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec
		BZ39-B025	2082704.894	749229.955	Subsurface Soil	0.5'-2.5'	VOCs	8260	8260
		BZ39-A026	2082697.797	749265.248	Surface Soil	0-0.5'	Radionuclides	HPGe	Alpha Spec
		BZ39-A026	2082697.797	749265.248	Surface Soil	0-0.5'	Metals	6200	6010
		BZ39-A026	2082697.797	749265.248	Surface Soil	0-0.5'	SVOCs	N/A	8270
		BZ39-B026	2082697.797	749265.248	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec
		BZ39-B026	2082697.797	749265.248	Subsurface Soil	0.5'-2.5'	VOCs	8260	8260
		BZ39-A027	2082731.910	749253.748	Surface Soil	0-0.5'	Radionuclides	HPGe	Alpha Spec
		BZ39-A027	2082731.910	749253.748	Surface Soil	0-0.5'	Metals	6200	6010
		BZ39-A027	2082731.910	749253.748	Surface Soil	0-0.5'	SVOCs	N/A	8270
		BZ39-B027	2082731.910	749253.748	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec

IHSS Group	IHSS/PAC/UBC Site	Location Code	Easting	Northing	Media	Depth Interval	Analyte	Onsite Method	Offsite Laboratory Method
		BZ39-B027	2082731.910	749253.748	Subsurface Soil	0.5'-2.5'	VOCs	8260	8260
		BZ39-A028	2082724.813	749289.041	Surface Soil	0-0.5'	Radionuclides	HPGe	Alpha Spec
		BZ39-A028	2082724.813	749289.041	Surface Soil	0-0.5'	Metals	6200	6010
		BZ39-A028	2082724.813	749289.041	Surface Soil	0-0.5'	SVOCs	N/A	8270
		BZ39-B028	2082724.813	749289.041	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec
		BZ39-B028	2082724.813	749289.041	Subsurface Soil	0.5'-2.5'	VOCs	8260	8260
		CA38-A000	2082760.300	749112.574	Surface Soil	0-0.5'	Radionuclides	HPGe	Alpha Spec
		CA38-A000	2082760.300	749112.574	Surface Soil	0-0.5'	Metals	6200	6010
		CA38-A000	2082760.300	749112.574	Surface Soil	0-0.5'	SVOCs	N/A	8270
		CA38-B000	2082760.300	749112.574	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec
		CA38-B000	2082760.300	749112.574	Subsurface Soil	0.5'-2.5'	VOCs	8260	8260
		CA38-A001	2082753.203	749147.868	Surface Soil	0-0.5'	Radionuclides	HPGe	Alpha Spec
		CA38-A001	2082753.203	749147.868	Surface Soil	0-0.5'	Metals	6200	6010
		CA38-A001	2082753.203	749147.868	Surface Soil	0-0.5'	SVOCs	N/A	8270
		CA38-B001	2082753.203	749147.868	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec
		CA38-B001	2082753.203	749147.868	Subsurface Soil	0.5'-2.5'	VOCs	8260	8260
		CA38-A002	2082794.414	749101.074	Surface Soil	0-0.5'	Radionuclides	HPGe	Alpha Spec
		CA38-A002	2082794.414	749101.074	Surface Soil	0-0.5'	Metals	6200	6010
		CA38-A002	2082794.414	749101.074	Surface Soil	0-0.5'	SVOCs	N/A	8270
		CA38-B002	2082794.414	749101.074	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec
		CA38-B002	2082794.414	749101.074	Subsurface Soil	0.5'-2.5'	VOCs	8260	8260
		CA38-A003	2082787.316	749136.367	Surface Soil	0-0.5'	Radionuclides	HPGe	Alpha Spec
		CA38-A003	2082787.316	749136.367	Surface Soil	0-0.5'	Metals	6200	6010
		CA38-A003	2082787.316	749136.367	Surface Soil	0-0.5'	SVOCs	N/A	8270
		CA38-B003	2082787.316	749136.367	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec
		CA38-B003	2082787.316	749136.367	Subsurface Soil	0.5'-2.5'	VOCs	8260	8260
		CA38-A004	2082821.430	749124.867	Surface Soil	0-0.5'	Radionuclides	HPGe	Alpha Spec
		CA38-A004	2082821.430	749124.867	Surface Soil	0-0.5'	Metals	6200	6010
		CA38-A004	2082821.430	749124.867	Surface Soil	0-0.5'	SVOCs	N/A	8270
		CA38-B004	2082821.430	749124.867	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec
		CA38-B004	2082821.430	749124.867	Subsurface Soil	0.5'-2.5'	VOCs	8260	8260

IHSS Group	IHSS/PAC/UBC Site	Location Code	Easting	Northing	Media	Depth Interval	Analyte	Onsite Method	Offsite Laboratory Method
		CA38-A005	2082814.333	749160.161	Surface Soil	0-0.5'	Radionuclides	HPGe	Alpha Spec
		CA38-A005	2082814.333	749160.161	Surface Soil	0-0.5'	Metals	6200	6010
		CA38-A005	2082814.333	749160.161	Surface Soil	0-0.5'	SVOCs	N/A	8270
		CA38-B005	2082814.333	749160.161	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec
		CA38-B005	2082814.333	749160.161	Subsurface Soil	0.5'-2.5'	VOCs	8260	8260
		CA38-A006	2082848.446	749148.660	Surface Soil	0-0.5'	Radionuclides	HPGe	Alpha Spec
		CA38-A006	2082848.446	749148.660	Surface Soil	0-0.5'	Metals	6200	6010
		CA38-A006	2082848.446	749148.660	Surface Soil	0-0.5'	SVOCs	N/A	8270
		CA38-B006	2082848.446	749148.660	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec
		CA38-B006	2082848.446	749148.660	Subsurface Soil	0.5'-2.5'	VOCs	8260	8260
		CA39-A001	2082746.105	749183.161	Surface Soil	0-0.5'	Radionuclides	HPGe	Alpha Spec
		CA39-A001	2082746.105	749183.161	Surface Soil	0-0.5'	Metals	6200	6010
		CA39-A001	2082746.105	749183.161	Surface Soil	0-0.5'	SVOCs	N/A	8270
		CA39-B001	2082746.105	749183.161	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec
		CA39-B001	2082746.105	749183.161	Subsurface Soil	0.5'-2.5'	VOCs	8260	8260
		CA39-A002	2082739.008	749218.454	Surface Soil	0-0.5'	Radionuclides	HPGe	Alpha Spec
		CA39-A002	2082739.008	749218.454	Surface Soil	0-0.5'	Metals	6200	6010
		CA39-A002	2082739.008	749218.454	Surface Soil	0-0.5'	SVOCs	N/A	8270
		CA39-B002	2082739.008	749218.454	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec
		CA39-B002	2082739.008	749218.454	Subsurface Soil	0.5'-2.5'	VOCs	8260	8260
		CA39-A003	2082780.219	749171.661	Surface Soil	0-0.5'	Radionuclides	HPGe	Alpha Spec
		CA39-A003	2082780.219	749171.661	Surface Soil	0-0.5'	Metals	6200	6010
		CA39-A003	2082780.219	749171.661	Surface Soil	0-0.5'	SVOCs	N/A	8270
		CA39-B003	2082780.219	749171.661	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec
		CA39-B003	2082780.219	749171.661	Subsurface Soil	0.5'-2.5'	VOCs	8260	8260
		CA39-A004	2082773.122	749206.954	Surface Soil	0-0.5'	Radionuclides	HPGe	Alpha Spec
		CA39-A004	2082773.122	749206.954	Surface Soil	0-0.5'	Metals	6200	6010
		CA39-A004	2082773.122	749206.954	Surface Soil	0-0.5'	SVOCs	N/A	8270
		CA39-B004	2082773.122	749206.954	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec
		CA39-B004	2082773.122	749206.954	Subsurface Soil	0.5'-2.5'	VOCs	8260	8260
		CA39-A005	2082766.024	749242.248	Surface Soil	0-0.5'	Radionuclides	HPGe	Alpha Spec

IHSS Group	IHSS/PAC/UBC Site	Location Code	Easting	Northing	Media	Depth Interval	Analyte	Onsite Method	Offsite Laboratory Method
		CA39-A005	2082766.024	749242.248	Surface Soil	0-0.5'	Metals	6200	6010
		CA39-A005	2082766.024	749242.248	Surface Soil	0-0.5'	SVOCs	N/A	8270
		CA39-B005	2082766.024	749242.248	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec
		CA39-B005	2082766.024	749242.248	Subsurface Soil	0.5'-2.5'	VOCs	8260	8260
		CA39-A006	2082758.927	749277.541	Surface Soil	0-0.5'	Radionuclides	HPGe	Alpha Spec
		CA39-A006	2082758.927	749277.541	Surface Soil	0-0.5'	Metals	6200	6010
		CA39-A006	2082758.927	749277.541	Surface Soil	0-0.5'	SVOCs	N/A	8270
		CA39-B006	2082758.927	749277.541	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec
		CA39-B006	2082758.927	749277.541	Subsurface Soil	0.5'-2.5'	VOCs	8260	8260
		CA39-A007	2082807.235	749195.454	Surface Soil	0-0.5'	Radionuclides	HPGe	Alpha Spec
		CA39-A007	2082807.235	749195.454	Surface Soil	0-0.5'	Metals	6200	6010
		CA39-A007	2082807.235	749195.454	Surface Soil	0-0.5'	SVOCs	N/A	8270
		CA39-A007	2082807.235	749195.454	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec
		CA39-A007	2082807.235	749195.454	Subsurface Soil	0.5'-2.5'	VOCs	8260	8260
		CA39-B008	2082800.138	749230.747	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec
		CA39-B008	2082800.138	749230.747	Subsurface Soil	0.5'-2.5'	VOCs	8260	8260
		CA39-A009	2082793.041	749266.041	Surface Soil	0-0.5'	Radionuclides	HPGe	Alpha Spec
		CA39-A009	2082793.041	749266.041	Surface Soil	0-0.5'	Metals	6200	6010
		CA39-A009	2082793.041	749266.041	Surface Soil	0-0.5'	SVOCs	N/A	8270
		CA39-B009	2082793.041	749266.041	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec
		CA39-B009	2082793.041	749266.041	Subsurface Soil	0.5'-2.5'	VOCs	8260	8260
		CA39-A010	2082841.349	749183.954	Surface Soil	0-0.5'	Radionuclides	HPGe	Alpha Spec
		CA39-A010	2082841.349	749183.954	Surface Soil	0-0.5'	Metals	6200	6010
		CA39-A010	2082841.349	749183.954	Surface Soil	0-0.5'	SVOCs	N/A	8270
		CA39-B010	2082841.349	749183.954	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec
		CA39-B010	2082841.349	749183.954	Subsurface Soil	0.5'-2.5'	VOCs	8260	8260
		CA39-A011	2082834.252	749219.247	Surface Soil	0-0.5'	Radionuclides	HPGe	Alpha Spec
		CA39-A011	2082834.252	749219.247	Surface Soil	0-0.5'	Metals	6200	6010
		CA39-A011	2082834.252	749219.247	Surface Soil	0-0.5'	SVOCs	N/A	8270
		CA39-B011	2082834.252	749219.247	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec
		CA39-B011	2082834.252	749219.247	Subsurface Soil	0.5'-2.5'	VOCs	8260	8260

IHSS Group	IHSS/PAC/UBC Site	Location Code	Easting	Northing	Media	Depth Interval	Analyte	Onsite Method	Offsite Laboratory Method
		CA39-A012	2082827.154	749254.541	Surface Soil	0-0.5'	Radionuclides	HPGe	Alpha Spec
		CA39-A012	2082827.154	749254.541	Surface Soil	0-0.5'	Metals	6200	6010
		CA39-A012	2082827.154	749254.541	Surface Soil	0-0.5'	SVOCs	N/A	8270
		CA39-B012	2082827.154	749254.541	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec
		CA39-B012	2082827.154	749254.541	Subsurface Soil	0.5'-2.5'	VOCs	8260	8260
		CA39-A013	2082820.057	749289.834	Surface Soil	0-0.5'	Radionuclides	HPGe	Alpha Spec
		CA39-A013	2082820.057	749289.834	Surface Soil	0-0.5'	Metals	6200	6010
		CA39-A013	2082820.057	749289.834	Surface Soil	0-0.5'	SVOCs	N/A	8270
		CA39-B013	2082820.057	749289.834	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec
		CA39-B013	2082820.057	749289.834	Subsurface Soil	0.5'-2.5'	VOCs	8260	8260

IHSS Group 600-2 Maps

Location of Existing Sample Results Above Background Levels or MDLs at IHSS Group 600-2

FY02 Sampling Locations for IHSS Group 600-2

Figure 1

IA Groups Location Map

EXPLANATION

IHSS Groupings



Standard Map Features

- Buildings and other structures
- Demolished buildings
- Solar Evaporation Ponds (SEPs)
- Lakes and ponds
- Streams, ditches, or other drainage features
- Fences and other barriers
- Paved roads
- Dirt roads

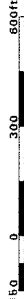
Industrial Area Operable Unit Boundary

DATA SOURCE BASE FEATURES:

IAIA
Historical Release Report (HRR)
2nd Annual Update
Individual Hazardous Substance Site (IHSS)
DOE, 1992, HRR Report and Subsequent Updates.
Buildings, fences, hydrographic roads and other features were digitized from aerial data captured by USGS IHS, Las Vegas.
Digitized from the orthophotographs, 1995



Scale = 1 : 6330
1 inch represents approximately 628 feet



State Plane Coordinate Projection
Colorado Central Zone
Datum: NAD27

U.S. Department of Energy
Rocky Flats Environmental Technology Site

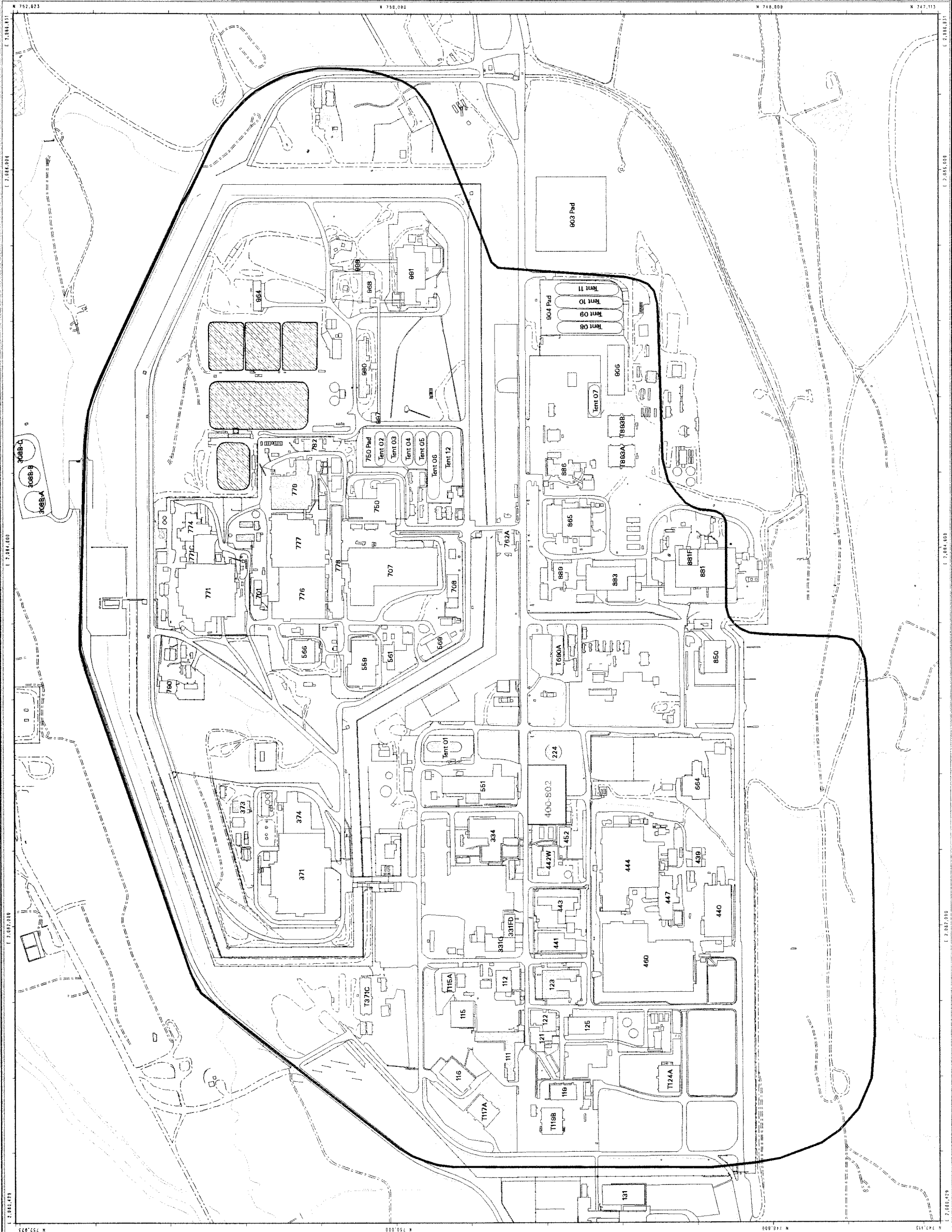
GIS Dept. 903-986-7707

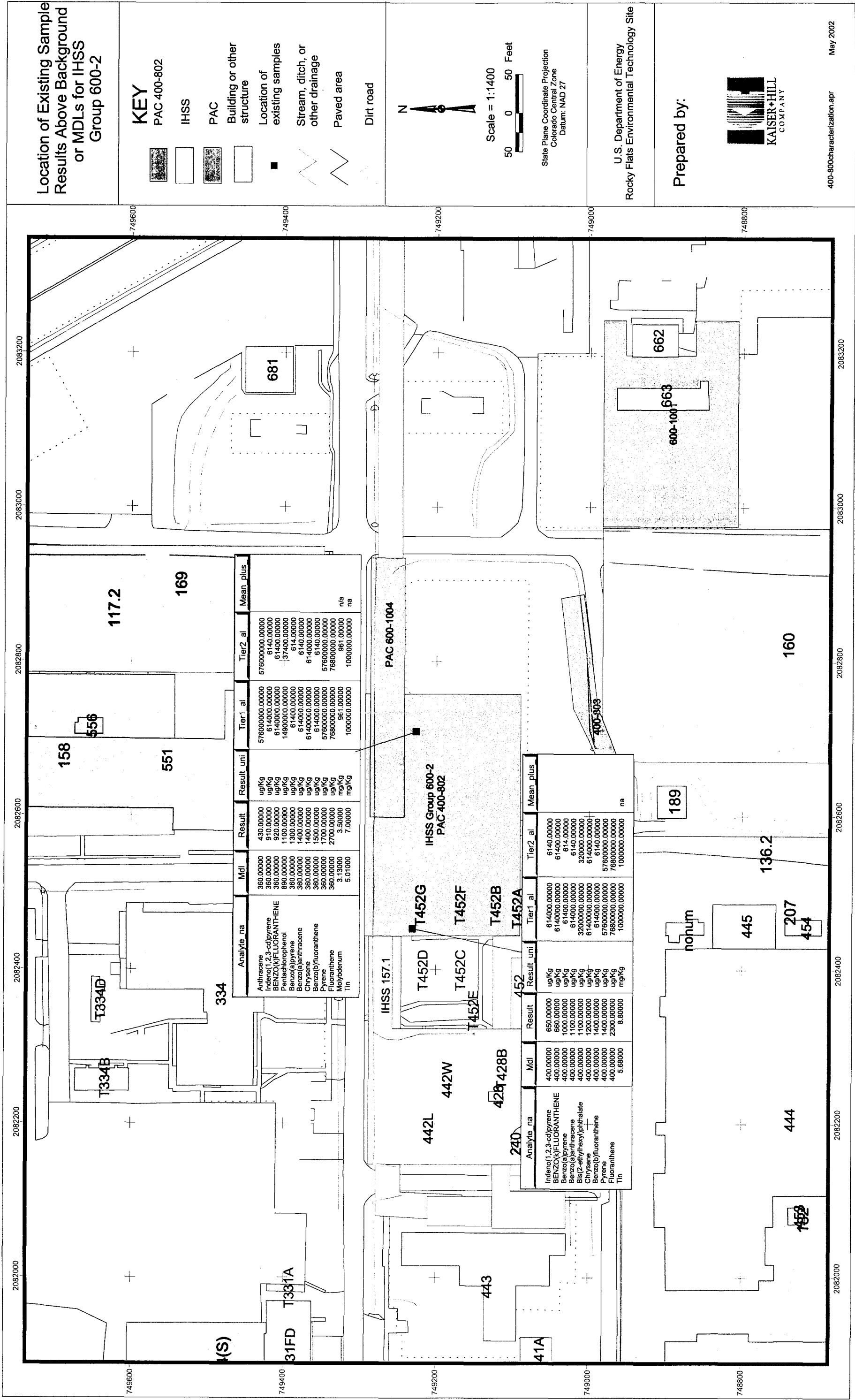
Prepared by:

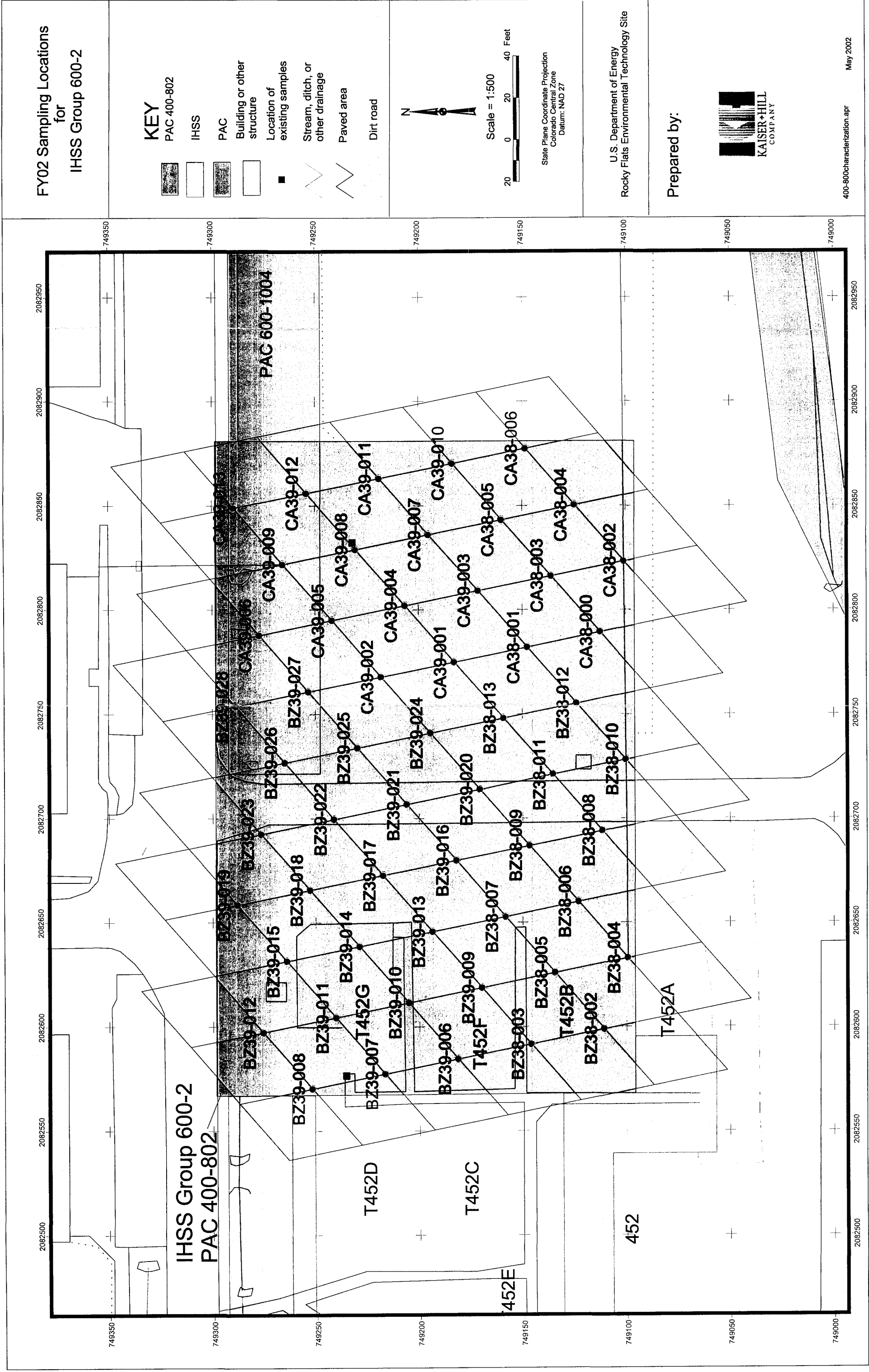
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